









## THE MUSEUMS JOURNAL.

THE ORGAN OF THE MUSEUMS ASSOCIATION,

Chaucer House, Malet Place, London, W.C.1.

This Journal, which is published monthly, contains Articles, Reviews, and Technical Notes on every Museum aspect of Zoology and other Sciences. It is the only English Journal which deals with the installation and preservation of exhibits, and which reviews Museum work in all parts of the world.

It is published monthly, Price 3s., by the Association and by Dulau & Co., Ltd., 32, Old Bond Street, London, W.1. It is distributed free to all members of the Museums Association (Subscription £1 1s. 0d. per annum), of which full particulars are obtainable from the Secretary at the above address.



# XII. INSECTA

BY

## THE IMPERIAL INSTITUTE OF ENTOMOLOGY

### FOREWORD

THE attention of readers is directed to the fact that, beginning with the present issue, the systematic part of the Record is reserved only for information of purely taxonomic value. References to data on morphology, physiology, bionomics, ecology, distribution and other general problems will not be found as before under their respective groups in the systematic part, but must be looked for in the Subject Index, where they are arranged by orders under each heading. The classification of headings in the Subject Index has been revised in order to make the information more complete and readily available. It is hoped that this change will render the Record of more value for entomologists working on general problems, without affecting its importance for taxonomists.

Entomological papers written entirely from an economic point of view are omitted, but abstracts of these will be found in the *Review of Applied Entomology*.

Very brief papers, usually those dealing with a single species, are noticed either in the Subject Index or in the systematic part, but do not appear in the list of titles.

The writers of systematic papers are requested to mark new synonyms with the words (*n. syn.*), as otherwise it is impossible to ensure that they will be correctly recorded.

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**Diptera**: ENGEL, Bombyliidae (conclusion), 813; GOETGHEBUER, Chironominae, revision, 1005; HENNIG, Tanypezidae, Coelopidae, Milichiidae, Carnidae, revision, 1238; KRÖBER, Therevidae, catalogue, keys, 1680; LENGERSDORF, Sciaridae with reduced wings, 1761; LINDNER, Stratiomyidae, revision, 1814; OLSOUEFF, Tabanidae, U.R.S.S., revision, 2256; PARAMONOV, *Anthrax* (Bombyl.), revision, 2305; PERFILEV, Psychodidae, U.R.S.S., 2364; ROHDENDORF, Sarcophaginae, U.S.S.R., revision, 2618; SACK, Cordyluridae, revision, 2683.

**Orthoptera**: MISTSHENKO, *Sphingonotus* (Acrid.), revision, 2069.

#### EUROPE, collectively.

**Coleoptera**: BRUCE, *Cryptophagus*, monogr., 363; JEANNEL, *Haptoderus* (Carab.), revision, 1464; LESNE, *Hendecatomois reticulatus* (Bostry.), distribution, 1773; LIPP, *Rhopalopus spinicornis* (Cerambyc.), distribution, 1826; SCHEERPELTZ, *Acrolocha* (Staph.), key, 2742; WÜSTHOFF, *Gyrophaena* (Staph.), revision, 3437.

**Hemiptera**: POISSON, *Ceresa bubalus* (Membr.), distribution, 2445; STICHEL, *Metopoplax*, distribution, 2974.

#### NORTH EUROPE AND SIBERIA.

**Insecta**: KEMNER, Anholt, Sweden, 1554; SØNDERUP, new and rare spp. for Denmark, 2913; SZELIGA-MIERZEYEW-SKI, Oesel I., Esthonia, 3020.

**Coleoptera**: HABERMANN, Kuusnõmme, Esthonia, 1121; HELLÉN, *Haemonia*, Finland, 1223; JANSSON & PALM, Gamtland [contd.], 1457; KANGAS, *Bembidion stephensi*, in Finland, 1514; LYSHOLM, Trøndelag, Norway, 1864; PALM, spp. new to

Sweden, 2294, *Barypithes* (Curc.) of Norway, 2295; PALM & LINDROTH, Klarälven, Sweden, list, 2297; STENIUS, Kilpisjärvi district, Finland, list, 2965; STRAND, *Corticaria*, *Corticarina* (Lathr.), Norwegian spp., 2986; WEST, Denmark, III, 3354, Faroes, Shetland, Scotland, Norway, Iceland, 3355.

**Hymenoptera:** GRÜN WALDT, *Prosopis* (Apid.), Latvia, 1084; HELLÉN, Ichneumonids new to Finland, 1224, Cynipids, Finland, 1225; MERISUO, *Psenulus* (Sphec.), Finland, 2033; STRUVE, Borkum I., list, 2996.

**Lepidoptera:** ERMOLAJEV, E. Siberia, list, 818; GRÖNBLÖM, Macrolepidoptera, Finland, list and distribution, 1074; HOFFMEYER, *Chrysophanus dispar rutilus* (Lyc.), *Asthena anseraria* (Geom.), Denmark, 1324, 1325; HOFFMEYER & KNUDSEN, Bornholm, list, 1316, Lolland-Faster, Denmark, list, 1327; LEMPKE, Macrolep., Netherlands, catalogue, II, 1757; NORDSTRÖM, WAHLGREN, TULLGREN & LJUNGDAHL, Swedish butterflies, 2209; REHEKAMPFF, Macrolep., Oesel I. and Estland, 2550; RYNDIN, *Plusia gutta* (Noct.), Estonia, Ent. Rdsch. 54 p. 504; SÖYRINKI, Macrolep. Vesilahti, Finland, 2920; VALLE, Sphingidae, Bombycidae, Finland, keys, 3226; WARNECKE, Macrolep., Sylt I., 3312; WOLFF, Faroes, Shetland, Iceland, 3410.

**Trichoptera:** ESSEN-PETERSEN & FINDAL, Sønderjylland, Denmark, 827; HENRIKSEN, Faroes, 1245.

**Neuroptera:** TJEDER, Raphididae, Sialidae, Sweden, 3130.

**Diptera:** FREY, Agromyzidae, Finland, 938; JACOBSON, Conopidae, E. Baltic, 1438; LACKSCHEWITZ, Mycetophilidae, E. Baltic, 1710; RINGDAHL, Tachinids, Sweden, list, 2596; TIENSUU, Muscidae, Finland, 3104; TUOMIKOSKI, *Ocydromia* (Empid.), Finland, 3179.

**Siphonaptera:** HENRIKSEN, Faroes, 1245.

**Hemiptera:** KEMNER, Heteroptera, I, II, Sweden, 1552; KONTKANEN, Jassids, Finland, 1652; LINDBERG, *Cicadula*, Finland, Scandinavia, 1808, Hem. of Skåne, 1809; OSSIANNILSSON, *Typhlocyba* group *rosa* (Jassid.), key to Swedish spp., 2276, Jassids, Sweden, 2277; STRUVE, Borkum I., list, 2995.

**Thysanoptera:** HUKKINEN & SYRJÄNEN, Finland, 1377; MALTBAEK, *Aptinotrips rufus*, distribution in N. Europe, 1922.

**Anoplura:** HENRIKSEN, Faroes, 1245; MALTBAEK, Denmark, 1924.

**Mallophaga:** HENRIKSEN, Faroes, 1245; MALTBAEK, Denmark, 1924.

**Odonata:** KEMNER, Anholt, Sweden, 64; DOMANDER, Finland, list, 718; ESSEN-PETERSEN, Sønderjylland, Denmark [supplm.], 825; SÖMME, Scandinavia, list and distribution, 2905, 2906; VALLE, Finland, list, 3223-3225.

**Orthoptera:** AMDEV, Anholt, Sweden, 64; FINDAL, Sønderjylland, Denmark, 827.

**Collembola:** HENRIKSEN, Faroes, list, 1245.

## BRITISH ISLES.

**Insecta:** DALTRY, Staffordshire, list, 655; HARRISON ET AL, Isle of Raasay and adjacent Is., 1171; TOMLIN, Sussex, list, 3138.

**Coleoptera:** CRAWFORD, aquatic Coleoptera of Co. Tyrone, Ireland, list, 620; DONISTHORPE, Windsor Forest, list, 723, 727; FISHER, *Scolytus*, key, 876; PEARCE, *Haliphys heydeni*, distribution, 2354, Halipidae, Ireland, 2355; STELFOX, *Strangalia* spp. (Ceram.), Ireland, distribution, 2962; WALKER, Oxford, list, 3303.

**Hymenoptera:** GREENSHIELDS, Tenthrinidae, Raasay I., 1058; HALLETT, Aculeate Hymenoptera, Hereford, 1138; MORLEY, Suffolk, list (concl.), 2106; NIXON, *Dacnusa* (Brac.), revision, 2199; PERKINS, *Sphecochaga* (Ichn.), 2366; RICHARDS, Hym. Aculeata, list, 2588, *Epeolus*, *Colletes* (Apid.), key, 2591; SPOONER, N.W. Highlands, Aculeate Hymenoptera, 2940; STELFOX, *Spheg sabulosa*, Ireland, 2963.

**Lepidoptera:** CRAWFORD, *Acronycta auricoma* (Noct.), Ireland, Irish Nat. J., Belfast 6 p. 280; FLETCHER, *Papilio machaon*, 887; GREER, *Platyptilus tesseraedactylus* (Pteroph.), Ireland, Irish Nat. J., Belfast 6 p. 280; HALLIWELL, Jersey (contd.), 1139; PIERCE, *Homocerosoma* spp. of *nimbella* group, 2429; Local Lists: 915, 1170, 1173, 1198, 2389, 2668, 2715, 3303.

**Trichoptera:** GRENSTED, Oxford, list, 1060, 1061.

**Neuroptera:** KILLINGTON, monograph, II, 1567, list of British spp., 1568; ROEBUCK, Lincolnshire, 2612.

**Diptera:** AUDCENT, Bristol, list, additions, 95; COLLIN, *Pipunculus*, *rufipes* group, 576; PATTON & WAINWRIGHT, Sarcophaginae, revision, 2337; PUGH, Shropshire, additions, 2494.

**Hemiptera:** HARRISON, Psyllidae, Northumberland and Durham, list, 1167.

**Thysanoptera:** MORISON, Raasay, Scalpay Is., list, 2104.

**Plecoptera:** GRENSTED, Oxford, list, 1060.

**Odonata:** LLOYD, Hertfordshire, list, 1832; LONGFIELD, handbook, 1841; WILD, Gloucestershire, list, 3380.

**Orthoptera:** FLETCHER, Gloucestershire, list, 886.

**Collembola:** BAGNALL, Onychiuridae, Scotland, 107.

## FRANCE.

**Insecta:** CHATENAY, Jura, 489; GADEAU DE KERVILLE, Normandie, Neuropteroid insects, list, 960.

**Coleoptera:** GRUARDET, *Atheta* (Staph.), keys, 1082; HERVÉ, *Aphodius*, distribution of subgen. *Ammocius*, 1275; HOULBERT & BARTHE, Aphodiidae, catalogue (contd.), 1364; PUEL, *Europhilus*, *Stenolophus*, *Dyschirius* (Carab.), France, keys, 2489; SAINTE-CLAIRE DEVILLE, Rhizophagidae—Bruchidae, catalogue [contd.], 2684; Local Lists: 487, 763, 2029, 2331, 2332, 2433, 2578, 2871.

**Lepidoptera:** MOUTERDE, Macrolepidoptera, Lyons district, 2122; PRAVIEL, Alpes Maritimes, new records, 2471; PUYSEUR, Alpes Maritimes, list, 2500.

**Trichoptera:** BERLAND & MOSELY, catalogue, 222.

**Diptera:** SÉGUY, illustrated keys, 2811; TIMON-DAVID, Chamonix valley and Mont Blanc, 3118.

**Hemiptera:** BALACHOWSKY, Coccidae Seine-et-Oise, list (contd.), 115.

**Ephemeroptera:** BAUDOT, additions 161.

**Orthoptera:** REY, list, 2577.

## CENTRAL AND EASTERN EUROPE.

**Insecta:** EIDEL, Rhine district, 792; SCHMIDT, Pomerania, local list, 2753; WAWERKA, Lepidoptera, Coleoptera of Moravian-Ostrau-Karvina coal regions, 3rd suppl., 3327.

**Coleoptera:** CÜRTEN, *Carabus* spp., Germany, list, 644; DERENNE, Belgium, catalogue, additions, 695; FAGEL, Belgium, catalogue, additions, 841; FOLZIN, Austria, list, 900; FOLWACZNY, Germany, distribution of some spp., 903; KINEL, Halipilidae, Dytiscidae, Poland, 1570; LIPP, *Gastroidea viridula* (Chrysom.), distribution, Germany, 1825; MAZUR, *Dromius* spp. (Carab.), Poland, 2006; ROUBAL, Diversicornia, Heteromera, Lamellicornia, Cerambycidae, of Czechoslovakia and Russian Carpathians, 2642, Histerids, Czechoslovakia, 1st suppl. to catalogue, 2643; SCHEERPELTZ, *Trogophloeus* (Staph.), key, 2741; SCHMIDT, criticism of Horion's "Nachtrag zu Fauna Germanica Käfer," 2754; SCHÖNMANN, high alpine Trechini (Carab.), E. Alps, 2770; SMRECZYŃSKI, Curculionidae, Poland, list, 2892; SPAČEK, Roubal's catalogue, notes, 2923; Local Lists: Germany 290, 298, 817, 1302, 1358, 1407, 1437, 1581, 1826, 2140, 2752, 2771; Austria 1340; Czechoslovakia 1663, 2840, 2849; Poland 1511, 3305; Ukraine 2502; Switzerland 1811.

**Hymenoptera:** ALFKEN, Tenthredinidae, N.W. Germany and E. Frisian Is., list, 44; AUEL, Formicidae, Mark Brandenburg, list, 98; BAŤA ET AL, Czechoslovakia, prodromus, 160; BISCHOFF, *Stizus perrisi* (Spheg.), distribution in Germany, 252; BLÜTHGEN, Saaletal, 275; CRÈVECOEUR & MARÉCHAL, Belgium, catalogue, 624; HAUPT, Pompilidae, Germany, list, 1189; KOLOSOV, *Cerceris* spp. (Spheg.), *Odynerus* spp. (Vesp.), Ukraine, list, 1638; KRATOCHVÍL, Formicidae, Czechoslovakia, list, 1670; MANEVAL, Proctotrupidae, Belgium, list, 1934; NIEZABITOWSKI, Braconids, Poland, 2192; PILICH, Pompilidae, Simon-tornya, Hungary, 2430; PITTONI, *Bombus* spp., Centr. Europe, 2435; SPACEK, Cimbicidae, Czechoslovakia, 2921; STRITT, *Megalodontes* spp. (Tenthred.), distribution and food-plants, 2994; VASKEVIČAITĖ, ants, Lithuania, 3241.



**Lepidoptera:** ADAMCZEWSKI, Tortricidae, Polish Tatra, 17; BODE, *Dicranura erminia* (Notodont.), distribution in Germany, 277; HOFFMANN, Rhopalocera, Austria, notes, 1317; HORMUZAKI, *Erebia* spp. (Satyrid.), Rumania, 1359; KAULIN, new to Estonia, 1540; KULESZA, Macrolepidoptera, Poland, list, 1692; MACGILLIVRAY, Netherland Macrolepidoptera, notes on catalogue, 1885; NIESIOŁOWSKI & WOJTUSIAK, *Erebia manto* (Satyr.), Carpathian Mts., distribution of geographical forms, 2189; OSTHELDER, Microlepidoptera of Hungarian plains, 2279; PALIONIS, Lithuania, list, 2290; PETROVSKY, S. Carpathians, 2373; PFAU, Macrolepidoptera, Pomerania list (suppl.), 2381; SCHACK, *Neptis lucilla* (Nymph.), S. Bohemia, Ent. Z. 51 pp. 157-160; SCHWARZ, Microlepidoptera, Czechoslovakia, 2794; SKALA, Nepticulidae, Central Europe, 2875; SOVINSKIĀ, Tortricidae, Kiev Prov., 2918; STACH, Microlepidoptera, Tatra Mts., list, 2944; STERNICK, *Toxocampa*, Bohemia, 2968; Local Lists: Germany 32, 938, 1837, 2081, 2498, 2762, 2764, 3204, 3291, 3313, 3315; Carinthia 3103; Czechoslovakia 2674, 3021; Poland 1979, 2977.

**Trichoptera:** MAYER, High Tatra, 1998, Czechoslovakia, list, 2003.

**Neuroptera:** KARL, E. Pomerania, list, 1524.

**Diptera:** ACZÉL, Trypetidae, Hungary, 16; DOMBROVSKAYA, Cecidomyiids, European Russia, 719; HERING, Trypetidae, Tighina, Rumania, list, 1255; KARAMAN, Nycteribiidae, Jugoslavia, keys, 1521; KARL, Brachycera, Pomerania, 1525; STACKELBERG, Culicinae, U.R.S.S., monograph, 2945; ZAVŘEL, Orthocladinae (Chiron.) High Tatra Mts., 3476.

**Hemiptera:** KAWECKI, Coccidae, Poland, 1541, 1542; KOLOSOV, *Gerris* spp., Ukraine, list, 1638; KUNTZE, Cicadidae, Mecklenburg, list and distribution, 1693; NAST, Homoptera, Kosowa Pokucki, Poland, 2156; WAGNER, N.W. Germany and Nordmark, 3284.

**Thysanoptera:** KÉLER, Poland, 1549.

**Psocoptera:** KARL, E. Pomerania, list, 1524; ROESLER, Pomerania, list, 2617.

**Ephemeroptera:** MIKULSKI, W. Carpathians, 2054.

**Odonata:** KITTELMANN, Potsdam district, 1580; RYMAR, S. Poland, list, 2676; WNUKOWSKY, White Russia, 3403.

**Orthoptera:** GÖTZ, *Polysarcus denticaudus* (Tettig.), Swabian Alps, 1036; KARL, E. Pomerania, list, 1524; NEUBAUER, Saltatoria, Knüll and Rhone Districts, 2174.

**Apterygota:** SCHUBERT, Altvatergebirges, 2777.

## SOUTH EUROPE.

**Coleoptera:** PALIATSEA, Scarabaeidae of Macedonia, 2289; SCHEERFELTZ, Staphylinidae from Bulgaria, 2738; SCHEIBEL, *Duvalius* (Carab.), Greece, key, 2743; STRANEO, *Feronia*, subgen. *Haptoderus*, Pyrenean spp., 2992.

**Hymenoptera:** CASTELLANI, Formicidae, Vespidae, Lazio, Italy, 467, 468.

**Lepidoptera:** AGENGO, *Procris* (Zyg.), Spain, revision, 23; BURESCH & TULESCHKOW, Geometrids, Bulgaria, horizontal distribution (contd.), 396; ZUKOWSKY, Parnassus and Vjeluchi Mts., Greece, list, 3507; ZÜLLICH, Macrolepidoptera, Rilo Mts., Bulgaria, 3508.

**Trichoptera:** MORETTI, Venezia Tridentina, list, 2102; RADOVANOVIĆ, Jugoslavia, list, 2511.

**Diptera:** ANGULO, *Phlebotomus*, Spain, 77; CAMBOURNAC, Culicids, Aguas-de-Moura, Spain, 426; GHIDINI, Tabanidae, Italy, keys, 992.

**Siphonaptera:** WAGNER, S. Serbia, list, 3288.

**Hemiptera:** GÓMEZ-MENOR, Coccids, Spain, monograph, 1026; KORMILEVA, Jugoslavia, 1656; LINDBERG, Capsidae, Spain, list, 1804; NEVES, Coccids, Portugal, revision, 2176, 2177; POLIZU, Aphids, Bessarabia, 2447.

**Thysanoptera:** KNECHTEL, Rumania, 1601.

**Plecoptera:** FESTA, Perlodidae, Italy, 868.

**Dermaptera:** CASTELLANI, Forficulidae, Lazio, Rome, 466.

**Orthoptera:** SALFI, Valona (Albania), 2688.

**MEDITERRANEAN ISLANDS.**

**Coleoptera:** VITALE, Sicily, catalogue (contd.), 3266-3268.

**Lepidoptera:** BYTINSKI-SALZ, Sardinia, 421; SCHWARZ, Microlepidoptera, Lussin I., list, 2795.

**Orthoptera:** SALFI, Rhodes, 2688; WERNER, Aegean Is., list, 3351.

**CAUCASUS, WEST AND CENTRAL ASIA.**

**Insecta:** BODENHEIMER, Palestine, catalogue, 280; OVCHINNIKOV, R. Tehu district, E. Turkestan, 2282.

**Coleoptera:** EIDAM ET AL., Hindu-kush, 8.

**Hymenoptera:** ALFKEN & BLÜTHGEN, Apidae, Demawend, 48; PITIONI, *Bombus*, Elburs Mts., 2436.

**Lepidoptera:** KOZHANTSCHIKOV, Agrotinae, Pamirs, origin, 1665; REISS, Zygaenidae, Elburz Mts., relation to N. African and Pyrenean faunas, 2569, 2570; SHELJUZHKO, Satyridae, Teberda district, list, 2849; THOMSON-GLOVER, from Chinese Turkestan, 3101; ZUKOWSKY, W. Armenia, list, 3506.

**Diptera:** AUSTEN, Bombyliidae, Palestine, revision, 99; STACKELBERG, Culicinae, U.R.S.S., monograph, 2945.

**Hemiptera:** ARKHANGEL'SKAYA, Coccidae, revision, 82.

**Orthoptera:** MISTSHENKO, N. Afghanistan, 2070.

**NORTH AFRICA.**

**Insecta:** SCORTECCI, Fezzan, Tassili Mts., 2799.

**Coleoptera:** GRIDELLI, Fezzan, 1065; KOCH, Staphylinidae, Libya, list, 1618, Anthicids, Libya, catalogue, 1620; LESNE, *Zophosis* spp. (Tenebr.), distribution, 1775; NORMAND, Tunisia, catalogue, 2210; DE PEYERIMHOFF, *Actidium* (Ptil.), key, 2376; SUMAKOV, Meloidae, list, 3010.

**Hymenoptera:** GUIGLIA, Aculeata, Cyrenaica, 1097; SANTSCHI, ants, Morocco, list, 2705.

**Diptera:** EFFLATOUN, Asilidae (2), Egypt, monograph, 780.

**Siphonaptera:** JORDAN, Morocco, list, 1489.

**Hemiptera:** MANCINI, Fezzan, 1930; MIMEUR, Psyllidae, Aphidae, Phylloxeridae, Middle Atlas, 2064; VIDAL, Heteroptera, Morocco, 3251.

**Orthoptera:** CHOPARD, Morocco, 507.

**AFRICA.**

**Insecta:** BUXTON, insects other than Col. of Lake Rudolf Rift Exped., 1934, 418.

**Coleoptera:** ALLUAUD, Carabidae, Cicindelidae, Abyssinia, 53; BURGEON, Carabidae, Belgian Congo, list, 397, 399, Agonini (Carab.), Abyssinia, 398, Ruwenzori, list, 400, Paussids, Belgian Congo, list, 401; DELÈVE, Dryopidae, Belgian Congo, 675, 676; DELKESKAMP, *Mimodacne* (Erotyl.), distribution, 677; GSCHWENDTNER, *Hydrocanthus* (Dytisc.), key, 1088; HUSTACHE, Curculionidae from Congo, 1400; KLEINE, Brentidae, Lycidae, Abyssinia, 1583; LHOSTE, Scydmaenidae, Mozambique, 1788; NETOLITZKY, *Tachys*, *Bembidion* spp. (Carab.), Abyssinia, 2172; OBENBERGER, *Trachys* (Bupr.), revision, 2228; D'ORCHYMONT, *Palpicornia*, Mozambique, 2263; PIC, various families from Angola, 2405, 2113, 2114; THÉRY, Buprestidae, Abyssinia, 3067; VOSS, Apoderinae (Curc.) from Belgian Congo, 3277.

**Hymenoptera:** ARNOLD, Pompilidae, revision (concl'd.), 83; COCKERELL, new *Ceratina*, *Halictus*, *Megachile* (Apid.), 544; GIORDANI-SOIKA, *Odynerus*, revision, ii, 998; GUIGLIA, *Oryssus* (Tenth.), key, 1093, *Chalinus* (Tenth.), 1096; SANTSCHI, Formicidae, Angola, list, 2709; SOIKA, *Alastor* (Vesp.), key to new Ethiopian spp., 2898.

**Lepidoptera:** BERIO, Heterocera, Juba, 218; DEBAUCHE, Geometridae, Abyssinia, 670; EVANS, Hesperidae, catalogue, 835; HAIG, Danaidae, Nigeria, 1130; HAWKER-SMITH, Lycaenidae, Fr. W. Africa, 1191; HERING, Chrysopolomidae, revision, 1258, *Paryphanta* (Limac.), key, 1264, Himantopterinae, Anomoeotinae (Zyg.), synopsis, 1267; LE DOUX, *Planema*, particularly Belgian Congo, 1740; STEVENSON, Lycaenidae of N. and N.E. South African subregion, 2971; TALBOT, Pieridae, Haute Volta, Fr. W. Africa, 3043.

**Diptera:** COLLART, *Zaprionus* (Drosoph.), Belg. Congo, key, 569 GIBBINS, Simuliidae, Buganda, Uganda, 995; LA FACE, *Anopheles* of Italian colonies, 1711; POTTS, *Glossina*, Tanganyika, distribution, 2406; SCHWETZ, *Phlebotomus* (Psychod.), Belgian Congo, 1st, 2797.

**Thysanoptera:** JACOT-GUILLARMOUD, South Africa, catalogue, 1441.

**Isoptera:** GRASSÉ, French W. Africa, 1049.

**Odonata:** BARNARD, S. Africa, keys and list, 150; LONGFIELD, Mozambique, 1842.

**Dermaptera:** MENOZZI, Mozambique, 2024, from Angola, 2025.

**Orthoptera:** BEIER, Mantodea, Lake Rudolf, 188, Mantodea from S. Angola, 191; JOHNSTON, Acrididae, Mt. Kenya, 1475; REHN, Blattidae, III, revision, 2551.

## MADAGASCAR AND MASCARENE IS.

### COLLECTIVELY.

**Lepidoptera:** EVANS, HesperIIDae, catalogue, 835.

### MADAGASCAR.

**Coleoptera:** ARROW, *Temnorhynchus* sp. n. (Dynast.), 87; BERNHAUER, *Paederus* sp. n. (Staph.), 227; BOUCOMONT, *Epilissus*, *Philharmostes*, keys, *Aulonocnemis* spp. n., 309; GUIGNOT, *Laccophilus* sp. n. (Dytisc.), 1101; LESNE, *Sponsor* spp. n. (Bupr.), 1774; OBENBERGER, *Aphanisticus* (Bupr.), revision, 2229; D'ORCHYMONT, *Helochares* sp. n., *Cercyon* sp. n., 2265; PAULIAN, *Helictopleurus* sp. n., 2341; PIC, *Nesotaurus* sp. n. (Allecul.), 2410, new Cistelidae, 2421, new Clerids, 2424A; spp. n., 2424B; SCHAUBERGER, *Pseudosiopelus* sp. n. (Carab.), 2725; SCHEDL, *Xyleborus* spp. n. (Scolyt.), 2734; THÉRY, new Buprestids, 3068.—**Hymenoptera:** CEBALLOS, Anteoninae (Bethyl.), spp. n., 478; GIORDANI SOIKA, *Odynerus* sp. n., 1000.—**Lepidoptera:** DRAESEKE, *Desmeocraera* sp. n. (Notod.), 742; TALBOT, *Lepidochrysops* sp. n. (Lycaen.), 3045.—**Diptera:** ALEXANDER, new Tipulidae, 36, 40A; FREY, *Leptogaster* sp. n. (Asil.), 937; HENNIG, *Paramimegralla* gen. et sp. n. (Micropez.), 1242; HULL,

*Velocimyia* gen. et sp. n. (Syrph.), 1379; SÉGUY, *Rhynchocoenops* sp. n. (Musc.), 2810.—**Hemiptera:** DRAKE & POOR, *Radinacanthia* sp. n. (Ting.), 748.—**Orthoptera:** REHN, new Tetrigidae, 2552.

### MAURITIUS.

**Coleoptera:** FLEUTIAUX & VINSON, new Elaterids, 892; JORDAN, new Anthribidae, 1497; LESNE, *Sponsor* spp. n. (Bupr.), 1774; MARSHALL, new Curculionids, 1961; PIC, *Hylophilus* spp. n., 2424B; VINSON, *Adoretus* sp. n., 3263.—**Diptera:** LAMB, *Conioscinella* sp. n. (Chlorop.), 1716.—**Hemiptera:** BLÔTE, *Leptocorixia* sp. n. (Coreid.), 270; MAMET, new Coccids, 1929; TAKAHASHI, Aleurodids, sp. n., 3026, new Aphids, 3028, 3037.

## INDO-AUSTRALIAN REGION, collectively.

**Coleoptera:** DE COOMAN, *Paromalus* (Hist.), revision, 593.

**Lepidoptera:** PROUT, *Cleora alienaria* and *decisaria* groups (Geom.), revision, 2483, 2486; WARREN, Noctuidae, revision (suppl.), 3318.

## ASIA, TROPICAL AND EASTERN.

**Insecta:** new Japanese spp. described in 1936, 5.

**Coleoptera:** ANDREWES, key to some Indian Carabids, 73; BOURGOIN, Cetoniidae, N.W. China, 316; CHÔRÔ, *Pederillia* (Chrysom.), list, 517, Halticinae, Japan, 518, Chrysomelidae, Sado-Ga-Shima and Awa-Shima, Japan, 521, 522; DE COOMAN, *Paromalus* (Hist.), revision, 593, *Abraeus* (Hist.), Tonkin, key, 595; FALKENSTRÖM, N.W. China, Coleoptera, 847; HEBERDEY, *Tomoderus* (Anthic.), revision, 1210; HOFFMANN, Hainan I., 1322; KOJIMA, Longicorns, Yokoyama city, Japan, list, 1637; KÔNO, Malacoderms, Lamellicornia, Kuriles, 1644, 1647; KÔNO & KIM, Ptilininae, Japan, revision, 1650; MARSHALL, *Stenoscelis* (Curc.), key, 1963; MATSUMURA, *Onthophagus*, Japan, key, 1987, *Onthophaginae*, Korea, list, 1988; MURAYAMA, Scolytids, Korea, 2146; REICHARDT, *Pedinus* of U.S.S.R., 2564; TAMANUKI & OISHI unrecorded Longicorns from Kyushu, 3047.



**Hymenoptera:** LIU, Vespidae, China, catalogue, 1831; MA, Tiphiidae, China, catalogue, 1866, Psithyridae, China, list, 1869; TAKEUCHI, *Macrophya* (Tenthr.), Japan, revision, 3042; WATANABE, *Spinaria* (Brac.), revision, 3319, Braconids, Japan, revision, 3321; YASUMATSU, revisions of genera and local lists, Japan, 3449-3453, 3456-3458.

**Lepidoptera:** BELL & SCOTT, Spingidae, India, revision, 197; CARADJA & MEYRICK, Shantung Prov., 438, Microlepidopt., Yunnan Prov., 439; JOICEY & TALBOT, Hainan, catalogue (cont.), 1476; KOZHANTSHIKOV, Agrotinae, U.S.S.R., 1664; KURENCOV, southern element in Ussuri district, 1696, distribution of dendrophilous Lepidoptera in Ussuri Prov., 1697; NIKITIN, Manchuria, distribution, 2193; NOMURA, Heterocera, Manchuria, 2201; OOZI & SIRÔDU, Rhopalocera, Miyazaki dist., Japan, list, 2262; PEILE, butterflies, India, 2360; PEN, Papilionidae, Szechwan, list and keys, 2361; RAE, cold weather butterflies, Sind, 2512, butterflies, Karachi, 2513; SEVASTOPULO, Peshoke, India, local list, 2833; SHIBATANI & ITO, some Japanese butterflies, distribution, 2853; SONAN, Saturniidae, Bombycidae, Formosa, 2911, Cossidae, Japan, Formosa, Korea, list, 2912; SUGITANI, Korea, list, 3008; UCHIDA, Formosan Lepidoptera in Japan, list, 3188.

**Neuroptera:** BANKS, Formosa, list, 139; TJEDER, N.W. China, 3128.

**Diptera:** FREY, *Leptogaster* (Asil.), revision, 937; JACKSON, Anophelines of Hong Kong, 1432; OKADA, Macrocerinae, Lygistorrhiniinae (Mycetoph.), Japan, revision, 2246; OLSOUFIEFF, Tabanidae, U.R.S.S., revision, 2256; PATTON, *Musca*, Oriental, key, 2336; PEREL'EV, Psychodidae, U.R.S.S., 2364; PURI, Anophelines, India, distribution, 613; RAYNAL, *Phlebotomus* (Psych.), Indo-China, distribution, 2533, *Phlebotomus* (Psych.), N. China, 2534; ROHDENDORF, Sarcophaginae, U.S.S.R., revision, 2618; STACKELBERG, Culicinae, U.S.S.R., monograph, 2945; TOKUNAGA, Tanypodinae, Diamesinae (Chiron.), Japan, 3133, Ceratopogonidae, Japan, 3134, 3135; YANG, *Phlebotomus* (Psychod.), China, distribution, 3444.

**Siphonaptera:** THOMPSON, Ceylon, list, 3093.

**Hemiptera:** DESHPANDE, Aphididae, Poona, 699; GREEN, Coccidae, Ceylon, annotated list with emendations and additions, 1055; HOFFMANN, Kwangtung Aphididae, 1321; LINDBERG & ZACHWATKIN, Cicadina, N.W. China, 1810; TAKAHASHI, Aphids, Formosa, additions, 3036; YANG, Plataspidae, Pentatomidae, Urostylidae, Cydnidae, etc. China, distribution and geographical variation, 3445.

**Thysanoptera:** TAKAHASHI, Formosa, 3035, 3038.

**Isoptera:** ABE, *Coptotermes formosanus*, distribution in Japan, 12.

**Plecoptera:** WU, China, 3433.

**Ephemeroptera:** HSU, China, 1373.

**Orthoptera:** CHANG, Acridids, Szechwan and Tibetan border, 483; FURUKAWA, Gryllotalpidae, Jehol, list, 956, Mt. Sagami-Oyama, 957; Oozi, Gryllidae, Kysuusyu, Japan, list, 2261; SHIRAKI, Mantidae, Tridactylidae, Blattidae, Jehol, 2855; TINKHAM, Mantidae, China, 3121, Tetrigidae, N. China, Mongolia, 3122.

#### ASIATIC ARCHIPELAGO.

**Coleoptera:** ANDREWES, Carabidae, Bali, 71, *Pogonoglossus* (Carab.), Java and Sumatra, key, 72; ARROW, *Papuna* sp. n. (Dynast.), Philippines, 87; BERNHAUER, *Oxytelus* (Staph.), Philippines, 224; CAMERON, Staphylinidae, Java, 430; CSIKI, Halipilidae, Dytiscidae, Sumatra, Java, Bali, list, 634; GÜNTHER, new Curculionidae, Celebes, 1108; HEBERDEY, *Tomoderus* (Anthic.), revision, 1210; HELLER, *Perrhabaeus* sp. n. (Curc.), Philippines, 1229; OBENBERGER, *Trachys* sp. n. (Bupr.), Philippines, 2225; OCHS, Gyrinidae, Sunda Is., supplementary list, 2235; PIC, genn. et spp. n., Borneo, Java, Sumatra, Timor, 2424B; PORTEVIN, *Agathidium* sp. n. (Lioid.), Celebes, 2464; UHMANN, new Hispidids, Philippines, 3198; Voss, Curculionids from Java, 3281.

**Hymenoptera:** BETREM, *Campsomermis* ♂♂ with yellow metanotum (Scol.), Malaya, 231; FERRIÈRE, *Pseudaphycus*, *Anagyrus* spp. n. (Encyrt.), Philippines, 863; GUIGLIA, new Tenthredinids, Philippines, 1092, 1094; SCHWARZ, *Trigona* spp., Borneo, list and key, 2792; WATANABE, *Spinaria* (Brac.), revision, 3319.

**Lepidoptera:** CORBET, *Curetis* (Lycaen.), Malaya, revision, 600, *Celastrina* (Lycaen.), Malaya, revision, 601; JORDAN, Papilionidae, Mentawai Is., 1493; MEYERICK, *Nemotois* sp. n. (Tin.), Philippines, 2046; PROUT, *Cleora* spp. n. (Geom.), Java, Luzon, 2483, 2486; PROUT, new Geometridae, Bali, 2485, 2486; WALSH, some Rhopalocera from Kangean Is., Sunda Sea, 3309; WEST, *Chalcocelis* sp. n. (Limac.), Philippines, 3350.

**Neuroptera:** Banks, Philippines, new spp., 140; HANDSCHIN, Timor and Rote, 1147.

**Diptera:** CAUSEY, Culicidae, Siam, 472, 473; ENDERLEIN, *Imugana* gen. et spp. n. (Ortal.), Philippines, 812; FREY, *Leptogaster* (Asil.), revision, 937; HERING, *Henicoptera* (Tryp.), Philippines, 1263; HULL, new Syrphids, Philippines, 1379; LENZ, Chironomidae, Neth. Indies, list, 1763; MACFIE, *Culicoides*, Malaya, key, 1884; THIENEMANN, Orthocladinae (Chiron.), Neth. Indies, supplement, 3081.

**Hemiptera:** DRAKE & POOR, new Tingids, Philippines, 746, 748; MERINO, Jassidae, Philippines, revision, 2032; VAN DUZEE, *Catacanthus* sp. n., Philippines, 3231.

**Psocoptera:** BANKS, Philippines, new spp., 140.

**Isoptera:** GHIDINI, spp. n., Sumatra, 987; LIGHT & WILSON, nasute termites, Philippines, 1803.

**Plécoptera:** GELJSKES, Java, list, 975.

**Odonata:** NEEDHAM & GYGER, Philippines, revision, 2167.

**Orthoptera:** GÜNTHER, Sunda Is., list, 1107, Tetrigidae, Celebes, 1109.

## PAPUAN SUB-REGION.

### BISMARCK ARCHIPELAGO.

**Coleoptera:** ARROW, *Oryctoderus*, spp. n. (Dynast.), Admiralty I., 87; BORCHMANN, *Cistelopsis* spp. n. (Cistel.), 299; JENSEN-HAARUP, *Hoffmannsegiella* sp. n. (Pent.), 1469.

### D'ENTRECASTEAUX IS.

PROUT, *Cleora* sp. n. (Geom.), Good-nough I., 2486.

### MOLUCCAS.

**Coleoptera:** JORDAN, *Xenocerus* sp. n. (Anthrib.), Tenimber I., 1484; ZIMMERMAN, *Pseudoeremomyx* gen. et sp. n. (Curc.), Amboina, 3492.—**Lepidoptera:** ROEFKE, *Phassus* sp. n. (Hepial.), Batjan I., 2615.

### NEW GUINEA.

**Coleoptera:** ARROW, new Dynastids, 87; BEESON, *Crossotarsus* sp. n. (Platyp.), 184; BORCHMANN, *Cistelopsis* sp. n. (Cistel.), 299; CAMERON, Staphylinidae, list and spp. n., 429; DE COOMAN, *Eulomalus* spp. n. (Hist.), 593; VAN EMDEN, new Carabids, 805; HELLER, new Curculionids, 1228; HINCKS, Passalidae, list, 1288; JEANNEL, *Archaeonemadus* spp. n. (Silph.), 1459; JORDAN, *Eczesaris* sp. n. (Anthr.), 1484; PAULIAN, new Scarabaeids, 2341, 2343, 2344; PIC, *Aethriostoma* sp. n. (Dermest.), 2424B; SCHEDL, new Scolytids, Platypids, 2731, 2733; SCHAUBERGER, *Anoplogenus* sp. n. (Carab.), 2726; THÉRY, new Buprestidae, 3070, 3074, 3077.—**Hymenoptera:** DONISTHORPE, *Polyrhachis* spp. n. (Form.), 721, 722.—**Lepidoptera:** GAEDE in SEITZ, *Eutelia* sp. n. (Noct.), 963; JORDAN, *Charagia* sp. n. (Hepial.), 1494; TALBOT, *Delias*, new ff. (Pier.), 3044; WARREN in SEITZ, *Prospalta* sp. n. (Noct.), 3318; WEST, *Nagoda* sp. n. (Limac.), 3356.—**Diptera:** BONNE-WEFSTER, new Culicids, 297; SÉGUY, *Alghetimyia* gen. et sp. n. (Musc.), 2810.—**Siphonaptera:** JORDAN, new spp., 1487.—**Hemiptera:** HARRIS, *Alleorrhynchus* spp. n. (Nabid.), 1166.—**Odonata:** LIEFTINCK, list and spp. n., 1798.—**Orthoptera:** CHOPARD, *Heterotrypus* sp. n. (Gryll.), 505; GÜNTHER, Phasmidae, 1110.—**Apterygota:** WOMERSLEY, 3417.

### SOLOMON IS.

**Coleoptera:** ARROW, new Dynastids, 87; VAN EMDEN, new Carabids, 805; HORN, *Cicindela* sp. n., Occ. Pap. Bishop Mus., Honolulu 13 p. 1; JORDAN, new Anthribidae, 1484; OCHS, new Gyrinidae, 2236; SCHEDL, *Platypus* sp. n., 2733; SEEVERS, *Thyreoxenus* sp. n. (Staph.), 2806; SPAETH, *Promethoclea* sp. n. (Hisp.), 2928; THÉRY, new Buprestids, 3074.—**Hymenoptera:** MICKEL, *Ephutomorpha* sp. n. (Mutill.), 2051; NIXON, *Telenomus* sp. n. (Proct.), 2193.—**Lepidoptera:** MEYERICK, *Sematosopa* gen. et sp. n. (Pyr.), 2045.—

**Diptera:** LINDNER, new Stratiomyiids, 1815; THOMPSON, Nycteribiidae, 3096.  
—**Thysanoptera:** HOOD, *Euoplothrips* sp. n., 1346.—**Orthoptera:** UVAROV, Acrididae, list, 3217.

## AUSTRALIA.

**Coleoptera:** ARROW, new Dynastids, 87; BEESON, *Crossotarsus* sp. n. (Platyp.), 184; CARTER & ZECK, Colydiidae, monograph, 463; FALKENSTRÖM, *Rhantus* sp. n., 849; HERBERDEY, *Moderus* (Anthic.), revision, 1210; DE JONG, *Cicindela saetigera*, distribution, 1483; LESNE, *Calophorus* (Bostry.), key and spp. n., 1778; McKEOWN, new Cerambycids, 1893; MELHUSH & DEANE, new Hydrophilids, 2014; OEBENBERGER, *Iridotaenia* sp. n. (Bupr.), Acta Soc. ent. Cech. 34 p. 40; PAULIAN, new Scarabaeidae, 2341, 2342, 2344; PIC, *Laius* sp. n., 2399; SCHEDL, new Scolytids, Platypids, 2733; STRANEO, *Prosopognus* sp. n. (Carab.), 2991; THÉRY, *Stigmodera* spp. n. (Bupr.), 3070; VOSS, *Auletobius* sp. n. (Curc.), 3280.

**Hymenoptera:** DONISTHORPE, *Pseudonotoncus* sp. n. (Form.), 721; GORDANI SOIKA, *Odynerus* sp. n., 997; HAUPT, Pompilidae, revision, 1190; RAYMENT, *Halictus* sp. n. (Apid.), *Ephutomorpha* spp. n. (Mutill.), 2532; TURNER, new Thynnids, 3185.

**Lepidoptera:** MEYRICK, *Cryptophasa* sp. n. (Tin.), 2046; PROUT, *Cleora* sp. n. (Geom.), 2486; TURNER, Oecophoridae, revision, 3182; WARREN, new Noctuids, 3318; WATERHOUSE, new Hesperiid subsp., 3322, *Hetronympha* sp. n. (Satyr.), 3323; WEST, *Apodecta* sp. n. (Limag.), Thursday I., 3356.

**Diptera:** ALEXANDER, new Tipulids, 35; ENDERLEIN, *Micropeza* sp. n., 812; HARDY, *Calliphora*, revision, 1158; MACKERRAS, *Aëdomyia* spp. (Culic.), 1895; LEE, *Theobaldia* spp. (Culic.), 1743; NORRIS, Apioceridae, key, 2208; TONNOIR, *Fergusonina* (Agromyz.), revision, 3140; WOMERSLEY, new Chironomidae, 3418, 3421.

**Siphonaptera:** JORDAN, *Acedestia* gen. et sp. n., 1492.

**Hemiptera:** DRAKE & POOR, *Perissonemia* sp. n. (Tingid.), Tasmania, 746; EVANS, new Jassids, 831, 832, *Hemiodoccus* spp. n. (Pelor.), 833, Mem. nat. Mus. Melbourne 9 1936 p. 102; JENSEN-HAARUP, *Paraboea* gen.

et sp. n., *Vitellus* sp. n. (Pent.), 1469; MCKENZIE, *Aonidiella* sp. n. (Cocc.), 1888; SOLOMON, *Spondylaspis* sp. n. (Psyllid.), 2904; USINGER, *Aphelocheirus* sp. n. (Naucor.), Aust. Zool., Sydney 8 p. 341.

**Mecoptera:** ESBEN-PETERSEN, *Harpobittacus* spp. n., 824.

**Orthoptera:** CHOPARD, Gryllidae, list, and *Paraeneopterus* sp. n., 509.

**Thysanura:** WOMERSLEY, Lepismatidae, Campodeidae, revision, 3420.

**Collembola:** RAYMENT, *Entomobrya* sp. n., 2532; SALMON, new spp., 2690; WOMERSLEY, new spp., 3416, 3419, 3422, Victoria, list, 3424.

## AMERICA, collectively.

**Lepidoptera:** HALL, *Phyciodes* (Nymph.), revision, 1132; HEINRICH, *Rupela* (Pyral.), revision, 1220.

## NORTH AMERICA.

**Coleoptera:** ANDRE, *Phyllophaga* spp. (Melolon.), Iowa, distribution, 67; BLEASDELL, Rhynchophora, Iowa, list, 268; BOHART, *Stylops*, California, 284; BROWN, *Anisotoma*, key, 362; BUCHANAN, *Gymnaetron* (Curc.), key, 380; CAZIER, *Pachydemini* (Scarab.), revision, 475, *Valgus*, key, 477; FALL, *Nemadus* (Silph.), 851; FATTIG, Georgia (contd.), 853; HOPPING, Clytini (Ceram.), revision, 1352, Lepeturini, II, 1353; KNULL, *Paratyndaris* (Bupr.), key, 1609; KRAUSS, *Glyptoscelis* (Eumolp.), revision, 1671; MOORE, San Diego county, Cal., list, 2097; SLOOP, *Melanophila* (Bupr.), revision, 2881.

**Hymenoptera:** COCKERELL, Apidae, Alberta, II, III, 557; COLE, ants, Arizona, list, 562; CUSHMAN, *Exetastes* (Ichn.), revision, 649; HAYWARD, *Vespa crabro*, in N. Dakota, Ent. News 48 p. 120; HUNGERFORD, *Pseudomasaris occidentalis* (Vesp.), in Kansas, 1388; MICKEL, *Timulla* (Mutill.), revision, 2052; MITCHELL, *Megachile*, (Apid.), revision of some subgen., 2074; PATE, Pemphredoninae, revision, 2329; RIES, Cephidae (Tenth.), revision, 2593; ROSS, *Ametastegia*, *Aphilodactylum*, *Allantus* (Tenth.), lists, keys, 2633, Tenthredinids, generic classification, 2634; SANDHOUSE, *Augochlora*, *Augochloropsis*, *Augochlor-aba* (Apid.), revision, 2699; WALLEY, *Smicroplectrus*, Canada, revision, 3307.



**Lepidoptera:** CLARK, butterflies of Virginia, 526, 529, 530; DYAR (rev. by SCHAUS), Cossidae, Limacodidae, revision, 766; KLOTS, N. York, list, 1569; MCALPINE, *Calephelis* spp. (Rhodinidae), 1871; MEADOWS, Rhopalocera, Santa Catalina I., California, list, 2009; MOORE, butterflies of Laclede County, Missouri, list, 2095; PFITZNER (revd. by Gaede), Hepialidae, 2383; RICHARDS, some tropical Noctuids in N. Amer., 2586; SWEADNER, *Platysamia* (Saturn.), distribution, 3015; TIETZ, Noctuidae, Pennsylvania, manual, 3108; ZUKOWSKY, Aegeriidae, catalogue, 3504.

**Megaloptera:** ROSS & FRISON, *Sialis*, key, 2635.

**Diptera:** ADAMS, Culicidae, Missouri, list, 18, Tipulidae, Missouri, list, 19; BROMLEY, *Stenopogon* (Asil.), revision, 350; FAIRCHILD, Tabanidae, Florida, list, 846; HALL, *Pseudogaurax* (Chlorop.), key, 1134; HALLOCK, Sarcophagidae, N. York, list, 1140; PHILIP, *Tabanus*, key to *affinis* group, 2390; ROOT & HOFFMAN, *Culicoides* (Ceratop.), 2626; SCHWARDT, Tabanids, Arkansas, 2790.

**Hemiptera:** BEAMER, *Osborniellus* (Jass.), revision, 177; DELONG, *Cyperana* (Jass.), revision, 679; DELONG & CALDWELL, Jassidae, list, 683A; DELONG & MOHR, *Graminella* (Jass.), key and list, 686; DORST, *Macrosteles* (Jass.), revision, 731; FERRIS, atlas of scale-insects, 864; HARRIS, S. Dakota, list, 1185; JONES, Membracidae, Nebraska, 1480; POISSON, *Ceresa bubalus* (Membr.), distribution, 2445; RUCKES, Pentatomids, New Mexico, annotated list, 2664; TUTHILL, *Euphalerus* (Psyll.), key, 3186.

**Thysanoptera:** BAILEY, California, records, 109, *Dactuliothrips*, revision, 111.

**Ephemeroptera:** IDE, *Baetis*, 1405; TRAVER, S.-E. States, 3164.

**Odonata:** BORROW, Ohio, annotated list, 304; BYERS, *Neurocordulia*, *Platycordulia*, revision, 420; KOEN, Reelfoot Lake, Tennessee, 1625; MONTGOMERY, Indiana, list, 2093; WRIGHT, central Gulf Coast area, Biloxi to Mobile R., key and list, 3432.

**Orthoptera:** FOX & OSTERMAN, some records, S.W. Pennsylvania, 917; GURNEY, Grylloblattidae, key, 1111;

HEBARD, notes on Pennsylvanian spp., 1206; ISELY, Acrididae, N.-E. Texas, distribution, 1419; KNUTSON, Acrididae, Iowa, list, 1613; UVAROV, representative of Old World sub-family Pamphaginae (Acr.) in L. California, 3216.

**Collembola:** EDINGER, Sminthuridae, S. California, 773; FOLSOM, Isotomidae, revision, 899.

## TROPICAL AMERICA.

**Coleoptera:** JORDAN, *Gymnognathus* (Anthrib.), key, 1485; SCHEERFELT, *Cordylaspis* (Staph.), revision, 2739.

**Hymenoptera:** BEQUAERT, *Polistes*, revision, 209.

**Diptera:** DA COSTA LIMA, *Culicoides* (Ceratop.), key, 610.

## CENTRAL AMERICA.

**Lepidoptera:** BOUVIER, Hemileucidae, revision (concl'd.), 327.

**Trichoptera:** MOSELY, Mexican Hydroptilidae, 2116.

**Diptera:** HALL, *Pseudogaurax* (Chlorop.), key, 1134.

## ANTILLES.

**Insecta:** BALLOU, notes on insects mentioned in Schomburgk's History, Barbados, 127.

**Coleoptera:** ARROW, *Cyclocephala* spp. n. (Dynast.), Jamaica, Leeward Is., 87; BANNINGER, *Taeniolobus* sp. (Carab.), Cuba, 143; BIERIG, new Staphylinids, Cuba, 240; BLAKE, new Chrysomeloids, Haiti, Cuba, Porto Rico, Jamaica, 262; CHAPIN, *Phyllophaga* sp. n., Cuba, 484; DARLINGTON, *Copidita* sp. n. (Oedem.), Cuba, 660, *Osorius* spp. n. (Staph.), Haiti, Cuba, Jamaica, 662, Carabids, Cuba, 663; HINTON, *Ataenius* spp. n. (Aphod.), Haiti, Porto Rico, 1291, *Protoparnus* sp. n. (Parn.), St. Vincent, 1298; JEANNEL, new Silphidae, 1459; MUTCHLER, *Tythyonyx* spp. n. (Lampyr.), Cuba, 2152; NEVERMANN, *Telephanus* (Cucuj.) spp. n., Jamaica, Haiti, etc., 2175; RAY, *Mordellistena*, Porto Rico, revision, 2531.

**Hymenoptera:** AGUAYO, *Macromischa* sp. n. (Formic.), Cuba, 26; COCKERELL, Apidae, Barbados, 559;

DOZIER, new Chalcids, Porto Rico 739; SMITH, Formicids, Porto Rico. 2888; WHEELER, new ants, Cuba, 3371.

**Lepidoptera:** SCHAUS, new Noto-dontids, Cuba, 2727; WATSON, new Hesperidae, 3324.

**Diptera:** ALEXANDER, new Tipulids, Cuba, Porto Rico, Bahamas, 38; HALL, *Pseudogaurax* sp. n. (Chlorop.), Porto Rico, 1134; HULL, new Syrphids, Cuba, Haiti, 1379; JAMES, *Platopsomyia* gen. et. sp. n. (Strat.), Cuba, 1448; ROOT, *Uranotaenia* sp. n. (Culic.), Haiti, 2625; TULLOCH, Culicids, Porto Rico, 3176.

**Hemiptera:** BRUNER & BARBER, new Reduviids, Cuba, 370; METCALF & BRUNER, Jassidae, Cuba, 2038; OMAN, new Jassids, Porto Rico, 2257.

**Orthoptera:** GURNEY, *Aglaopteryx* sp. n. (Blatt.), Porto Rico, 1112; REHN, *Polyancistrus* (Tettig.), Hispaniola, revision, 2554, *Gryllita* sp. n. (Gryll.), Cuba, 2555, new Blattids, Haiti, Tobago, 2557, *Polyancistroides* (Tettig.), Cuba, 2559.

## SOUTH AMERICA.

**Insecta:** ESCOMEL, Arequipa, Peru, 828.

**Coleoptera:** FERNANDEZ, Cicindelids, Uruguay, 862; FIEDLER, *Chalcodermus* (Curc.), revision, 869, 870, *Rhyssomatus* (Curc.) keys, 871; HUSTACHE, Magdalinæ (Curc.), keys, 1392; LANE, Anoplodermidae, revision, 1718; JACOB, Curculionids, Hohenau, Paraguay, list, 1434; LUEDERWALDT, *Pinotus* (Copr.) of Brazil, additions, 1856; MARIA, *Calosoma* (Carab.), Colombian spp., key, 1953; OBENBERGER, Buprestidae from Br. Guiana, 2221; OLAVE, Buprestidae, Chile, revision, 2253; ORELLANA, *Adelocera* (Elat.), Chile, revision, 2270; RUIZ, *Ceroglossus* spp. (Carab.), Chile, list, 2667; SAYLOR, *Phytholaema* (Melol.), Chile, revision, 2719; UHMANN, Uroplatini (Hisp.), key to genn., 3195; Voss, Auletini (Curc.), revision, 3279.

**Hymenoptera:** DA COSTA LIMA, *Opius* (Brac.), key, 608; GOETSCH, ants, Chilean deserts, 1012, 1013; OGLOBLIN, *Lymanon* (Mymar.), Argentina, 2243; RICHARDS, Sphecidae, Bembecidae, from British Guiana,

2590; PORTER, *Perilitus* (Brac.), Brazilian spp., 2842; RUIZ, Coquimbo province, list, 2666.

**Lepidoptera:** ADHERBAL DA COSTA, Morphidae, Federal District, Brazil, 21; D'ALMEIDA, Cuminá and Trombetas, Argentina, list, 55; BOUVIER, Hemileucidae, revision (concl.), 327; BREYER, Nahual Huapi, Rio Negro, list, 342; HAYWARD, *Pholisora* (Hesper.), Argentine, list, 1202, Hesperids new to Argentine fauna, 1203, Nymphalids, Argentina, additions, 1204; HOFFMANN, Castniidae, Zygaenidae, Lasiocampidae, Lymantriidae, Brazil, list, 1312; MARIA, Papilionidae, Colombia, list, 1951, Heliconiinae (Nymph.), Colombia, list, 1952; REICH, Arctiidae, S. Brazil, list, 2561; URETA, Hesperidae, Chile, 3206, Rhopalocera, Coquimbo prov., list (additions), 3207, Chile, list, 3208.

**Neuroptera:** NAVÁS, Colombia, list and keys, 2161.

**Diptera:** AYROSA GALVÃO & LANE, *Anopheles*, key to *Nyssorhynchus* group, São Paulo, 102; HALL, Sarcophaginae, Patagonia, S. Chile, 1133; MACFIE, Ceratopogonidae, Trinidad, 1881; SENEVET, Culicidae, Fr. Guiana, 2825; SMART, Calliphorinae, Patagonia, S. Chile, 2882; SOUZA LOPES, *Stylogaster* (Conop.), Brazil, revision, 2917.

**Hemiptera:** DRAKE & POOR, Tingitidae, list, 747; DA FONSECA, *Spongophorus* (Membr.), Brazil, key, 904; MONTE, Tingids, Bello Horizonte, Brazil, 2090.

**Siphonaptera:** WAGNER, S. Peru, 3290.

**Orthoptera:** ROBERTS, Acrididae, Venezuela, list, 2603.

## III.—SYSTEMATIC.

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Indian  
Forest  
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Indian  
Forest  
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## Sphecoidea.

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*Podium lindneri* sp. n. Argentina p. 165 figs., BISCHOFF & SCHULTHESS Konowia 16.

*Psen sibiricus* sp. n. Irkutsk p. 73, DE BEAUMONT Mitt. schweiz. ent. Ges. 17.—*P.* key to Palaearctic spp. p. 635, *affinis* Ussuri p. 652, *fulvitaris* Russia, Mongolia etc. p. 663, *sibiricus* p. 664, *bidentatus* p. 673 Siberia, *carinatus* Turkomenia, Persia p. 667, *rossicus* Russia p. 669, *dispar* Manchuria, Kamtshatka p. 670, *punctipleuris* p.

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*Pulverro* gen. n. p. 107, key p. 110, *mescalero* (type) p. 111, *serrano* p. 114, *colorado* p. 115, *costano* p. 116, *chumashano* p. 119, spp. n. U.S.A.; *columbianus* Kohl from *Ammoplanops* p. 113 figs., PATE Trans. Amer. ent. Soc. 63.

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*Therapon* see *Zyzyx*.

*Trigonopsis moraballi* p. 107, *grylloc-tonus* p. 110, spp. n. Br. Guiana, key p. 111, RICHARDS Trans. R. ent. Soc. Lond. 86.

*Xysma* gen. n. type *Ammoplanus ceanothae* Vier. p. 94 figs., PATE Trans. Amer. ent. Soc. 63.

*Zoyphidium* n. n. for *Zoyphium* Kohl nec Agass. pp. 4, 68, PATE Mem. Amer. ent. Soc. no. 9.

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*Zyzyx* n. n. for *Therapon* Park. nec Cloquet pp. 4, 68, PATE Mem. Amer. ent. Soc. no. 9.

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*Chalcogonatopus ankaratrus* sp. n. Madagascar p. 58 fig., CEBALLOS Eos 12 1936.

*Eucamptonyx australis* sp. n. Madagascar p. 57 fig., CEBALLOS t.c.

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*Lestodryinus saussurei* sp. n. Madagascar p. 48 fig., CEBALLOS t.c.

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*Neodryinus gigas* sp. n. Madagascar p. 51 fig., CEBALLOS t.c.

*Pseudisobranchium fialai* sp. n. Moravia p. 25 figs., HOFFER Vest. českosl. zool. Spolec. Praise 3 (1935) 1936.

*Trichogonatopus seyrigi* sp. n. Madagascar p. 59 figs., CEBALLOS Eos 12 1936.

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*Bradynobaenus wagenknechti* sp. n. Chile p. 331, fig., REED Rev. chil. H.n. 40.

*Campsomeris* key to ♂♂ with yellow metanotum in Malayan region p. 92, BETREM Proc. R. ent. Soc. Lond. (B) 6. —*C. kanoi* sp. n. Botel Tobago I. p. 125, YASUMATSU Mushi 9.

*Scolia kanoi* sp. n. Botel Tobago I. p. 123, YASUMATSU t.c.—*S. quadripunctata* F. (= *sexmaculata* Müller 1766 nec F. 1781) p. lxxviii, BETREM Tijdschr. Ent. 79.—*S. sexmaculata* ab. n. *hartigi* Italy p. 81, GUIGLIA & CAPRA Boll. Soc. ent. ital. 69.

*Tiphia homoncularis* p. 272, *juliana* p. 275, *isolata* p. 277, *corpulenta* p. 280, *mediocris* p. 283, *burrelli* p. 286, *castaneaevora* p. 288, spp. n. Japan, PARKER J. N.Y. ent. Soc. 45.—*T. chinensis* type re-described p. 345 fig., POPOV Ent. & Phytopath. 5.

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New World Mutillidae in the collection of Spinola at Torino, MICKEL Rev. Ent. Rio de J. 7 pp. 165-207, 2 figs.

*Dasymutilla pallida* p. 186, *cardinalis* p. 188, *deyrollesi* p. 190, *gaumeri* p. 192, spp. n. Mexico, MICKEL t.c.

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*Ephutomorpha emeraldiana*, *peremeraldiana* p. 57, *redanamelia* p. 58, *melanaderia* spp. n.; *picta* subsp. n. *perpicta* p. 59 Australia, RAYMENT Arb. phys. angew. Ent. Berlin 4.—*E. tulagiensis* sp. n. Solomons p. 454, MICKEL Ann. Mag. n.H. (10) 19.

*Euspinolia* Ashm. (= *Reedia* Ashm.) p. 200, MICKEL Rev. Ent. Rio de J. 7.

*Hoplocrates* n. n. for *Hoplomutilla* André nec Ashmead; *cayennensis* sp. n. Cayenne p. 198, MICKEL t.c.

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*Timulla* revision of N. American spp. pp. 1-118, key p. 8, *tyro* p. 25, *wileyae* p. 41, *nitela* p. 43, *neobule* p. 44, *nicholi* p. 47, *compressicornis* p. 59, *euphrosyne* p. 64, *humbleyensis* p. 82, *ocellaria* (with subsp. n. *ocellaria* p. 91, *rufidorsa* p. 93), *kansana* p. 94, *subhyalina* p. 97, *dubitatiformis* p. 102, *contigua* p. 107, *tolerata* p. 109 spp. n.; *navasota* subsp. n. *nebulosa* p. 29; *dubitata* subsp. n. *fugitiva* p. 39; *suspensa* subsp. n. *sonora* p. 84, *jonesi* p. 90; *hollensis* subsp. n. *melanderi* p. 101 U.S.A. figs., MICKEL Ent. Amer. 17.—*T. guadeloupensis* Guadeloupe p. 167, *obtusata* Brazil p. 169, *byblis* Trinidad p. 172, spp. n., MICKEL Rev. Ent. Rio de J. 7.—*T. scapus* p. 443, *bryanti* p. 446, spp. n. Borneo; *proserpina proserpina* Sm. (= *fortuita* var. *nebulosa* Mick.) p. 448; *p. tibinata* Mick. (= *fortuita* Mick.) p. 449, MICKEL Ann. Mag. n.H. (10) 19.

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*Anospilus* key to Mediterranean spp. p. 89, *quadrispinosus* Morocco, *pennatipes* Armenia p. 89, *suspectus* Algeria, *geminus* Barcelona p. 90, *anoplioides* Algeria, *maroccanus* Morocco p. 92, *balearicus* Balearic Is., *temporalis* Spain, *basalis* Morocco spp. n.; *similis* n. n. for *luctigerus* Haupt nec Costa p. 93; *ater* f. n. *nigripennis* Morocco p. 91 figs., HAUPT Boll. Ist. Ent. Bologna 9.

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*Batozonus* revision of Japanese and Formosan spp. pp. 42–71 figs., YASU-MATSU Mushi 10.—See *Batozonellus*.

*Ceropales scobiniferus* Nyasaland p. 86, *variosus* Uganda p. 87, *karoensis* p. 90 (with rr. n. *waltoni* p. 92 Cape Province, *multipictus* S.W. Africa p. 91), *latifasciatus* Abyssinia, *lawrencei* Port. E. Africa p. 93, spp. n.; *punctulatus* var. n. *cereris* Cape Province p. 84 figs., ARNOLD Ann. Transv. Mus. 19.

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*Elaphrosyrus multipictus* sp. n. Belgian Congo p. 42 figs., ARNOLD Ann. Transv. Mus. 19.

*Episyron* revision of Japanese and Formosan spp. pp. 71–76 figs., YASU-MATSU Mushi 10.

*Eremocurgus* gen. n. for *Priocnemis ephippiatus* Sm., *Pompilus pictipennis* Sm. p. 133, HAUPT Z. Naturw. Halle 91.

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*Mimocurgus* gen. n., *apicalis* sp. n. Australia p. 136, HAUPT Z. Naturw. Halle 91.

*Pachycurgus* gen. n. for *Pompilus lunatus* Sm. p. 131, *antennalis* Sm., *nubilipennis* Sm.; *terminalis* Australia p. 132, *fuliginosus* W. Australia p. 133 spp. n., HAUPT t.c.

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*Parapsammoderes* subgen. n. see *Psammoderes*.

*Pedinaspis* key to Mediterranean spp. p. 75, *lusitanicus* Portugal p. 79, *plagiatus* Morocco p. 80, *affinis* Lebanon etc. p. 81, *punicus* Tunis, *mauretanicus* Morocco p. 84 spp. n.; *consociatus* f. n. *atra* (= *difficilis* Hpt.) p. 87 figs., HAUPT Boll. Ist. Ent. Bologna 9.

*Poecilagenia unimacula* sp. n. Italy p. 70, HAUPT t.c.

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*Poimenus* subgen. n. see *Schistonyx*.

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*Schistonyx* (*Poimenus* subgen. n.) *sheppardi* sp. n. S. Rhodesia p. 13 figs., ARNOLD t.c.

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*Syntomoclitus* gen. n., *bicolor* sp. n. S. Rhodesia p. 25 figs., ARNOLD t.c.

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*Xenocurgus* gen. n., *tasmanicus* Vandiemensland, *rufipes* New South Wales spp. n. p. 135, HAUPT t.c.

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*Nortozumia* gen. n. for *Zethus rufifemoratus* Cam. (type) (redescribed p. 264) and *Gayella pulchella* Sm. p. 263 figs., VAN DER VECHT Treubia 16.

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*Pachymenes fragilis* var. n. *karimonensis* Java p. 278, VAN DER VECHT Treubia 16.

*Pareumenes quadrispinosus* var. n. *intermedius*, *javanus* p. 270; *depressus* var. n. *thoracicus* p. 273 Java figs., VAN DER VECHT Treubia 16.

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*Pseudochrysis bihamata* var. n. *gineri* Spain p. 491, HOFFMANN Ent. Rdsch. 54.

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#### HESPERIIDAE.

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*Prospalta ochrisquamota*, *praesecta*, *innatura* p. 345, *subalbida*, *pallidipennis* (also Queensland), *sublucens* p. 346 India, *definita* (also N. Guinea) *pulverosa* (with ab. n. *variegata*) Austra-

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*Protoperigea* gen. n. for *Platyperigea anotha* Dyar p. 62, McDUNNOUGH t.c.

*Proxenus delecta* Moore, *divisa* Moore, *obtusa* Hmps., *sincera* Swinh., *kitti* Rbl., *corticea* Hmps., *lapidea* Wilem. from *Athetis* p. 365, BOURSIN Ent. Rdsch. 54.—*P. cinerea* see *Nonagria*.

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*Ampelophaga formosana* Mats. valid sp. p. 37, CLARK Proc. New Engl. zool. Cl. 16.

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*Gnophos benesignata* f. n. *uniformis* Sardinia p. 212, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.

*Gonodontis briela* sp. n. Abyssinia p. 341 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.

*Grammochesias* gen. n. type *hippocastanarioides* Roths. (with subsp. n. *rottroui* Oran) p. 83, PROUT in SEITZ Suppl. 4.

*Halia corearia* see *Devenilia*.

*Hemerophila japygiaria* f. n. *pseudosagarraria* Sardinia p. 211, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.

*Hemistola aetherae* sp. n. Abyssinia p. 327 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.

*Heterolocha* (*Symmetresia* subgen. n.) *aristonaria* Wkr. (type); *laminaria* subsp. n. *sutschanska* Amur, *euxantha* China; *chrysoides* Tibet p. 502 (with f. n. *juno* Szechwan), *elaiodes* p. 503, *phaeocelis* p. 516 Tibet, *pinara* p. 515, *atrivalva* p. 516 spp. n.; *rosearia* subsp. n. *adrosea* p. 517 China, WEHRLI Ent. Rdsch. 54.—*H. quadraria* see *Apoheterolocha*.

*Heterophleps sinuosaria* subsp. n. *stygnausa* China p. 91; *confusa* subsp. n. *epirotis* Ussuri p. 92 figs., PROUT in SEITZ Suppl. 4.

*Hibernia aurantiaria* ab. *fumipennaria* ♀ p. 559, SCHULTZ Festschr. E. Strand 3.

*Horisme tersata* var. n. *insularis*; *predotai* sp. n. p. 209 (with ab. n. *nigra* p. 210) Sardinia, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.

*Hyperphyra sterrhoticha* sp. n. Bali p. 188, PROUT Novit. zool. 40.

*Hypochrosis spodographa* sp. n. Bali p. 187, PROUT t.c.

*Hyposidra salebrata* sp. n. Bali p. 186, PROUT t.c.

*Hysterura hypischyra* sp. n. China p. 104 fig., PROUT in SEITZ Suppl. 4.

*Iodis subtractata* subsp. n. *accumulata* Bali p. 181, PROUT Novit. zool. 40.

*Iridopsis evolata* sp. n. Brazil p. 13 fig., DEBAUCHE Bull. Mus. H.n. Belg. 13 no. 14.

*Kuldscha staudingeri* subsp. n. *alatica* Alai p. 79; *loxobathra* (with subsp. n. *dignitosa*) China p. 80 figs., PROUT in SEITZ Suppl. 4.

*Kyrtolitha avulsa* Chinese Tibet, *pantophrica* Ta-tsien-lu, spp. n. p. 73 figs., PROUT in SEITZ Suppl. 4.

*Larentia mandschuricata* var. n. *borealis* Vilui p. 346, HERZ Ann. Mus. zool. Acad. Sci. St. Petersburg. 9 1904.—

*L. nobiliaria* ab. n. *annosatoides* Switzerland p. 562, SCHULTZ Festschr. E. Strand 3.—*L. didymata* ff. n. *trifasciata*, *interrupta* Faroe Is. p. 442 figs., WARNECKE Ent. Z. 50.—*L. corollaria* H.S. (= *noacki* Drdt.) p. 154 figs., DRAUDT Ent. Rdsch. 54.—*L. truncata* f. n. *angustifasciata* Denmark p. 102, GROTH Flora og Fauna 43.—*L. purpuraria* ab. n. *trilineata* Brignoles p. 71 fig., PROUT in SEITZ Suppl. 4.

*Ligidiformia* subgen. n. see *Semiothisa*.

*Lithina binaevata* ff. n. *adustata*, *transversata* Sardinia p. 212, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.—*L. rippertaria*, *tancrearia* see *Semiothisa*.

*Lithostege boursini* sp. n. Algeria p. 159, LUCAS Bull. Soc. ent. Fr. 42.—*L. griseata* subsp. n. *zernyi* Spain p. 84, PROUT in SEITZ Suppl. 4.—*L. griseata* var. n. *gigantea*, f. n. *transversaria* Iran sep. p. 13, BYTINSKI-SALZ Ent. Rec. 49.

*Lobogonodes multistriata* subsp. n. *atherma*, *clasis* China p. 105 figs., PROUT in SEITZ Suppl. 4.

*Lomographa frixa* sp. n. Bali p. 188, PROUT Novit. zool. 40.

*Loxofidonia obfuscata* subsp. n. *pallidistriga* Bali 182, PROUT t.c.

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*Lygris ludovicaria* subsp. n. *prae-mutans* China p. 107; *ledereri* subsp. n. *inurbana* Japan; *tertrivia* sp. n. Szechuan; *pyropata* subsp. n. *sugitanii* Japan p. 109; *albicinctata* ab. n. *eminens* Tibet p. 110 figs., PROUT in SEITZ Suppl. 4.

*Metrocampa honoraria* var. n. *reisseri* Sardinia p. 210, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.

*Monocerotesa* gen. n. for *Chiasmia strigata* Warr. p. 248; *trichroma*, *leptogramma* spp. n. China p. 249, WEHRLI Amat. Papill. 8.

*Neomacaria* subgen. n. see *Semiothisa*.

*Nothocasis* gen. n. type *sertata* Hb. p. 89 fig., PROUT in SEITZ Suppl. 4.

*Nychiodes divergaria* var. n. *elbursica* Elburs p. 187, WEHRLI Lambilliona 37.

*Operophtera brumata* ab. n. *harrisoni* England p. 95 fig., PROUT in SEITZ Suppl. 4.

*Organopoda orbata* subsp. n. *perorbata* Bali p. 181, PROUT Novit. zool. 40.

*Ortholitha duplicata* subsp. n. *subfimbriata* Sikkim-Tibet; *eurypeda* sp. n. Tchang-tou p. 76; *bipunctaria* ab. n. *cretata* England p. 77; *octodurensis* abb. n. *ibera* Spain, *aëlyptes* Spain p. 78; *propinquata* ab. n. *coarctata* Takao-San; *latifusata* subsp. n. *indecisa* Burma p. 79 figs., PROUT in SEITZ Suppl. 4.—*O. cadra* sp. n. Abyssinia p. 334 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.—*O. caucasica* sp. n. Caucasus p. 472, NIESIOŁOWSKI Ann. Mus. zool. polon. 11.—*O. elbursica* sp. n. Iran sep. p. 12, BYTINSKI-SALZ Ent. Rec. 49.—*O. proximaria* abb. n. *basiconfluens*, *medioconfluens*, *omniconfluens*, *mediofasciata*, *angustifasciata* Sardinia p. 207, BYTINSKI-SALZ Mem. Soc. ent. ital. 69.

*Parargyrotome* subgen. n. see *Argyroto-me*.

*Parepione epinephela* sp. n. China p. 518, WEHRLI Ent. Rdsch. 54.

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*Photoscotosia dejuncta* Kashmir, *dejuncta* W. China spp. n. p. 103; *tonchignearia* ab. n. *albiplaga* China p. 104 figs., PROUT in SEITZ Suppl. 4.

*Phyllometra proutiana* sp. n. Cirenaica p. 395 figs., TURATI Atti Soc. ital. Sci. nat. 75 1936.

*Piercia zukwalense* sp. n. Abyssinia p. 337 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.

*Plagodis subpurpuraria* subsp. n. *incerta* W. China; *porphyrea* sp. n. Yunnan p. 162, WEHRLI Ent. Rdsch. 54.

*Poecilopsis isabellae* see *Biston lapponaria*.

*Prasinocyma hailei* sp. n. Abyssinia p. 323 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.

*Pseudoboarmia buchholzaria* sp. n. N. Jersey p. 24, LEMMER Bull. Brooklyn ent. Soc. 32.

*Pseudopanthera chrysopteryx* sp. n. Tibet p. 562, WEHRLI Ent. Rdsch. 54.

*Ptychopoda* (as *Psychopoda*) *punctatilineata* sp. n. Morocco p. 124, LUCAS Bull. Soc. ent. Fr. 42.

*Pyrrhorachis pyrrhogona* subsp. n. *succornuta* Bali p. 181, PROUT Novit. zool. 40.

*Racheospila nigricinctata* subsp. n. *ligata* p. 4; *spatha* sp. n. p. 5 Brazil figs., DEBAUCHE Bull. Mus. H.n. Belg. 13 no. 14.

*Racotis monognampta* sp. n. Bali p. 186, PROUT Novit. zool. 40.

*Rhodometra sacraria* ab.n. *fumosa* Blida p. 70 fig., PROUT in SEITZ Suppl. 4.

*Rhodostrophia tabidaria* discussed pp. 443-458 figs., PETERSEN Ann. Mus. zool. polon. 11.

*Rhomborista megaspilaria* subsp. n. *purgata* Bali p. 179, PROUT Novit. zool. 40.

*Sangala uxisama* subsp. n. *peruviana* Peru p. 23, DEBAUCHE Bull. Mus. H.n. Belg. 13 no. 14.

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*Sauris eupena* sp. n. Kagoshima p. 93 fig., PROUT in SEITZ Suppl. 4.

*Scopula africana* sp. n. Juba p. 180, BERIO Ann. Mus. Stor. nat. Genova 58.—*S. iranaria* (with ab. n. *depuncta* sep. p. 12) sp. n. Iran sep. p. 11, BYTINSKI-SALZ Ent. Rec. 49.—*S. scotti* sp. n. Abyssinia p. 328 fig., DEBAUCHE Ann. Mag. n.H. (10) 20.

*Semiothisa* (*Ligidiformia* subgen. n.) *temeraria* (type), (*Neomacaria* subgen. n.) *verecundaria* (type), (*Spinuncina* subgen. n.) *rippertaria* (type); *clathrata* subsp. n. *azrouensis* Morocco p. 119, WEHRLI Ent. Z. 51.—*S. (Spinuncina* subgen. n.) *rippertaria* Dup., *tancrearia* Stgr. from *Lithina* p. 563, WEHRLI Ent. Rdsch. 54.

*Sirinopteryx parallela* W. China, *punctifera* Tseku spp. n. p. 161, WEHRLI t.c.

*Spilopera serrulata* sp. n. S.E. China p. 118, WEHRLI Ent. Z. 51.

*Spinuncina* subgen. n. see *Semiothisa*.

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*Sterrha glomerata* sp. n. Abyssinia p. 330 fig., PROUT Ann. Mag. n.H. (10) 20.

*Streblopoda* gen. n. for *Atyriodes cyrene* Drc. and others p. 411 figs., SICK Senckenbergiana 19.

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*Tephрина murinaria* subsp. n. *uralica* Urals p. 245; *mesographa* p. 246 (with var. n. *tschangkua*), *hypotaenia* (with var. n. *tschangkubia*), *isogrammica* p. 247 China spp. n., WEHRLI Amat. Papill. 8.—*T. semilitata* see *Ectephrina*.

*Tephroclystia prouti* sp. n. Iran sep. p. 13, BYTINSKI-SALZ Ent. Rec. 49.

*Thalassodes griseifimbria* sp. n. Bali p. 179, PROUT Novit. zool. 40.

*Thysanopyga amarantha* sp. n. Brazil p. 20 fig., DEBAUCHE Bull. Mus. H.n. Belg. 13 no. 14.

*Trichodezia kindermanni* subsp. n. *leucocratia* W. China p. 82 fig., PROUT in SEITZ Suppl. 4.

*Triphosa sabaudia* ab. n. *eugramma* Hautes-Alpes p. 98; *dubitata* subsp. n. *amblychiles* China; *salebrosa*, *aequivalens* spp. n. China p. 99 figs., PROUT in SEITZ Suppl. 4.

*Uliocnemis castalaria* subsp. n. *lepturges* Bali p. 179, PROUT Novit. zool. 40.

*Urapteryx aristidaria* see *Exurapteryx*.

*Xanthorhoe sordidata* subsp. n. *inimica* Bali p. 181, PROUT Novit. zool. 40.—*X. cuneosignata* p. 331, *alta* p. 333, spp. n. Abyssinia figs., DEBAUCHE Ann. Mag. n.H. (10) 20.

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*Antheraea formosana* Formosa p. 207 [in Japanese] fig., SONAN Trans. n.H. Soc. Formosa 27.

*Automeris suavina* sp. n. Brazil p. 182 fig., JOHNSON Ent. News 48.—*A. abasia* ff. n. *occidentalis* Peru, *septentrionalis* Costa Rica p. 51; *godarti* f. n. *guyanensis* p. 193; *excentricus* Fr. Guinea, *unilateralis* no locality p. 201,



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*Caligula boisduvali* subsp. n. *fukudai* Formosa p. 209 [in Japanese] fig., SONAN Trans. n.H. Soc. Formosa 27.

*Dirphia undulinea*, *tripicata* spp. n. Brazil p. 181 figs., JOHNSON Ent. News 48.

#### CERATOCAMPIDAE.

*Eacles campos-portoi* sp. n. Brazil p. 207 figs., MENDES Arch. Inst. Biol. vev. Rio de Jan. 3.

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*Brahmaea hearseyi* subsp. n. *celebica* Celebes p. 183 figs., TOXOPEUS Zool. Meded. 20.

*Brahmophthalma hearseyi* subsp. n. *luchli* Java p. 11 fig., DUPONT Ent. Meded. Ned.-Ind. 3.

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*Atelopsyche* gen. n., *mataea* sp. n. Russia p. 118, MEYRICK Exot. Micr. 5.

*Fumea pinicola* sp. n. Transvaal p. 117, MEYRICK t.c.—*F. flavicapitella* sp. n. Belgian Congo p. 132 figs., ROMIEUX Mitt. Schweiz. ent. Ges. 17.

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*Pseudosyngria* gen. n. for *Syngria colligata* Saalm. p. 103, SICK Ent. Rdsch. 55.

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*Carohamilia* gen. n. for *ophelia* Schs. p. 1269, DYAR in SEITZ 6.

*Cossula oletta* Colombia p. 1270, *interrogationis* Brazil, *duplex* Panama, *tapajoz* Amazons p. 1271 spp. n. figs., DYAR in SEITZ 6.

*Cryptobia phobifera* sp. n. Paraguay p. 1266 fig., DYAR in SEITZ 6.

*Dyspessa delrei* sp. n. Cyrenaica p. 393 fig., TURATI Atti Soc. ital. Sci. nat. 75 1936.

*Holcocerus desioi* sp. n. Cyrenaica p. 391 figs., TURATI t.c.—*H. firdusi* sp. n. N. Persia p. 23 fig., WAGNER Z. öst. EntVer. 22.

*Prolimacodes lilalia* sp. n. Fr. Guiana p. 1264 fig., DYAR in SEITZ 6.

*Schreiteria* gen. n., *pectinicornis* sp. n. Argentina p. 1268, DYAR in SEITZ 6.

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*Ratarda javanica* sp. n. W. Java p. 133 fig., ROEPKE Ent. Z. 51.

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*Metarbela sphacobapta* sp. n. Angola p. 164 fig., TAMS Bull. Hill Mus. 3 1929.

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*Chilena pelodes* sp. n. E. Africa p. 105 figs., TAMS J. E. Afr. Ug. n.H. Soc. 13.

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*Gonotrichidia* gen. n., *modestissima* sp. n. Belgian Congo p. 379, BERIO Ann. Mus. Stor. nat. Genova 59.

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*Macrothylacia rubi* ab. n. *brunnea* Holland p. 293, LEMPKE Tijdschr. Ent. 80.

*Nadiasa badoglioi* sp. n. Abyssinia p. 37 fig., BERIO Ann. Mus. Stor. nat. Genova 59.

*Odonestis pruni* ab. n. *aurantiaca* Holland p. 299, LEMPKE Tijdschr. Ent. 80.

*Opisthodontia rotundata* sp. n. Belgian Congo p. 374, BERIO Ann. Mus. Stor. nat. Genova 59.

*Pachymetana baldasseronii* sp. n. Congo p. 378, BERIO t.c.

*Pachypasa laterifascia* sp. n. Congo p. 375 fig., BERIO t.c.

*Pseudolyra bubalitica* sp. n. Angola p. 165 fig., TAMS Bull. Hill Mus. 3 1929.

*Pseudometa leonina* p. 164, *oinopa* p. 175, spp. n. Belgian Congo fig., TAMS t.c.

*Ptyssophlebia* gen. n., *avis* sp. n. Congo p. 377, BERIO Ann. Mus. Stor. nat. Genova 59.

*Streblote craterum* p. 176, *pygmaeorum* p. 177 spp. n. Belg. Congo, TAMS Bull. Hill Mus. 3 1929.

*Trichiura crataegi* ab. n. *defasciata* Holland p. 286, LEMPKE Tijdschr. Ent. 80.

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*Achrocerides* gen. n. for *Chrysopoloma theorini* Aur. p. 241 figs., HERING Ann. Transv. Mus. 17.

*Chrysopoloma flavoantennata* sp. n. Belgian Congo p. 383, BERIO Ann. Mus. Stor. nat. Genova 59.—*C. variegata* sp. n. N. Rhodesia; *varia* subsp. n. *flavipennis* Bulawayo p. 255; *variegata* subsp. n. *nigromaculata* Belgian Congo p. 256 figs., HERING Ann. Transv. Mus. 17.—*C. nivea* see *Chrysopolomides*; *theorini* see *Achrocerides*; *conspurcata* see *Scotinocerides*; *venata*, *ansorgei* see *Strigivenifera*.

*Chrysopolomides* gen. n. for *Chrysopoloma nivea* Aur. p. 240 figs., HERING Ann. Transv. Mus. 17.

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Limacodidae of America, DYAR in SEITZ 6 pp. 1113-1136.

*Anilina* gen. n. type *plebeia* Karsch p. 80, HERING Proc. R. ent. Soc. Lond. (B) 6.

*Apodecta insularis* sp. n. Thursday I. p. 80 fig., WEST Ann. Mag. n.H. (10) 20.

*Birithamoides buruana* sp. n. Buru p. 81 fig., WEST t.c.

*Chalcocelis wilemani* sp. n. Philippines p. 79 fig., WEST t.c.

*Chrysamma syntomoctena* p. 171, *erythrochrysa* p. 172 Centr. Africa, *diachrysa* Belg. Congo p. 171 spp. n. figs., TAMS Bull. Hill Mus. 3 1929.

*Cochlidion creticum* ab. n. *ochracea* Czechoslovakia p. 120, TRONÍČEK Acta Soc. ent. Cech. 34.

*Coenobasis turneri* sp. n. S. Africa p. 86 fig., WEST Ann. Mag. n.H. (10) 20.

*Crothaema trichromata* sp. n. Belgian Congo p. 82 fig., WEST t.c.

*Delorhachis chlorodaedala* sp. n. Angola p. 173 fig., TAMS Bull. Hill Mus. 3 1929.

*Euphobetron hydropteris* sp. n. Costa Rica p. 1131, DYAR in SEITZ 6.

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*Hydrocladia stolognoma* sp. n. Burma p. 82 fig., WEST Ann. Mag. n.H. (10) 20.

*Hyphormides barisana* sp. n. Sumatra p. 79 fig., WEST t.c.

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*Macroplectra jacksoni* sp. n. Uganda p. 86 fig., WEST Ann. Mag. n.H. (10) 20.

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*Narosa swanni* Burma, *fletcheri* Ceylon spp. n. p. 78 figs., WEST t.c.—*N. barnsi* Angola, *talboti* Belg. Congo spp. n. p. 170 figs., TAMS Bull. Hill Mus. 3 1929.

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*Scotinochroa mesepirotica* Belg. Congo p. 166, *charopocelis* Tanganyika p. 167 spp. n. figs., TAMS Bull. Hill Mus. 3 1929.

*Tanadema nora* sp. n. Colombia p. 1133 fig., DYAR in SEITZ 6.

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*Gratidia bituberculata* Redt. (= *aliena* B. v. W.); *uvaroviana* sp. n. Turkmenistan p. 119, MISTSHENKO Proc. R. ent. Soc. Lond. (B) 6.—*G. adelungi* ♀ p. 797, MISTSHENKO J. Bombay n.H. Soc. 39.

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*Acanthurella halei* sp. n. Australia p. 156 fig., WOMERSLEY Trans. R. Soc. S. Aust. 61.

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*Ceratrimeria* re-description of some of Lubbock's N. Zealand and Tasmanian spp. pp. 374-378, key p. 378 figs., WOMERSLEY J. Linn. Soc. London, Zool. 40.

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## ERRATA.

Vol. li, 1914, p. 188, transfer *Ponerilla* to Col., Staphylinidae.

Vol. lxy, 1928, p. 172, 1st col., line 28, for "*Tetraulacopora*" read "*Tetra-laucopora*".

Vol. lxv, 1928, p. 177, 2nd col., line 17, before p. 20 insert "*Stichodonia*"; line 18, before p. 21 insert "*Platydonia, Thoracodonia*".

Vol. lxvii, 1930, p. 140, 1st col., line 18, for "**33**" read "**23**".

Vol. lxx, 1933, p. 416, 1st col., 5 lines from end, delete "from China".

Vol. lxxii, 1935, p. 411, 2nd col., line 16, for "**38**" read "**28**".

Vol. lxxiii, 1936, p. 90, no. **1863** and p. 374, 2nd col., line 33, for "**54**" read "**53**".

Vol. lxxiii, 1936, p. 289, 1st col., line 32, after "*pubescens*" insert "**sp. n.**"

Vol. lxxiii, 1936, p. 299, 2nd col., for "*Psammolestes*" read "*Psammalestes*". 7

Vol. lxxiii, 1936, p. 329, 1st col., line 36, for "METZGER" read "MEZGER".

Vol. lxxiii, 1936, p. 419, 2nd col., line 2, for "*ocellata* Scop." read "*alpinus* Giebel".

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